

ECE 487/687 Grading Expectations

Cognitive Development
Evaluation
Synthesis
Analysis
Application
Comprehension
Knowledge



Scholarly Maturity Development
Share/develop new knowledge, challenge conventions
Develop relationships to other area of knowledge
Acting on curiosity by additional learning outside
Curiosity, wonderment, questions
Desire to get a better grade, work ethic
Desire to meet minimum objectives

Cognitive Development Examples

Knowledge: Memorize facts (names of anatomical structures)

Comprehension: Importance and meaning of facts (function of anatomical structure)

Application: Use comprehension and knowledge to solve simple problems (How do these anatomical structure work together to produce the cardiac cycle)

Analysis: Given a problem, break it down into its constituent parts (be able to explain ramifications of a disease process on the individual components and how it will alter overall function)

Synthesis: Creatively develop a whole from various parts (develop a theory of cardiovascular control from a number of principles)

Evaluation: Make quality judgements concerning creative works (be able to judge the soundness of a new theory)

Scholarly Maturity Development Examples

Desire to meet minimum objectives: Want to know what is necessary to pass the class

Desire to get a good grade: Good grades are a primary motivation.

Curiosity, wonderment, questions: Start to go beyond the material presented in class as questions develop, Students begins to think, "I wonder how that is?"

Acting on curiosity by additional learning outside: Student takes steps to ask others and have discussions about questions and curious. Reference books additional reading, etc.

Develop relationships to other area of knowledge: Connections to other areas of knowledge begin to form. Realizations that, Oh that's why we learned differential equations and Fourier transforms"

Share/develop new knowledge, challenge conventions: Student begins to share ideas, thoughts with others